

Frontiers in DNA Nanoscience: Designed nucleic acid structures in physics, chemistry, and biology.

Oct. 25, 2011 | 9.00 – 21.00 | Walter Schottky Institut / ZNN | Am Coulombwall 4 | Garching
Oct. 26, 2011 | 10.00 – 16.00 | LMU | Faculty of Physics | Schellingstr. 4 | München

Organizers:

Hendrik Dietz, Kurt Gothelf, Tim Liedl, Friedrich Simmel

Participating Institutions:

- Aarhus University
- Karolinska Institute Stockholm
- Technische Universität München
- Ludwig-Maximilians-Universität



tuesday location: ZNN ground level

wednesday location: Altbau PH #110

Kindly supported by :



Guests are very welcome but encouraged to register at dietz@tum.de.

Program

Tuesday Oct 25 2011	Location: Campus TUM Garching, Walter Schottky Institute ZNN Ground Level, Am Coulombwall 4
8:30 - 9:00	Breakfast
9:00 - 9:30	Welcome / Opening remarks
9:30 - 10:00	Sarah Wendelbo Helmig - 'Design and applications of 3D DNA origami'
10:00-10:30	Anders Okholm - 'Creating well-defined patterns of cell-ligands on DNA origami'
10:30 - 11:00	Coffee Break
11:00 - 11:30	Thomas Gerling - 'Towards a synthetic molecular motor assembled with DNA origami'
11:30 - 12:00	Thomas Martin - 'DNA origami for molecular tomography and gated nanopores'
12:00 - 13:00	Lunch
13:00 - 13:30	Vera Arnaut - 'Pump and probe nanopore force spectroscopy on an ATP aptamer
13:30 - 14:00	Fabian Kilchher - 'DNA origami enhanced single molecule force spectroscopy'
14:00 - 14:30	Coffee Break
14:30 - 15:00	Max Scheible - 'Super-resolution microscopy on DNA nanostructures'
15:00 - 15:30	Christian Rosen - 'DNA programmed assembly of molecular wires'
15:30 - 16:00	Lab Tour ZNN
16:30 - 17:00	Maximilian Weitz - 'In vitro transcription networks in microcompartments'
17:00 - 17:30	Cosimo Ducani - 'Enzymatic oligonucleotide production in DNA nanotechnology'
17:30 - 18:00	Corinna Kaul - 'Replication and amplification of metal salen base pair'
18:00 - 19:30	Dinner (Bavarian Buffet & Bavarian Beverages)
19:30 - 21:00	Poster Session. Note: Please mount posters already in the morning.
21:00 - open end	Transit to downtown. Informal discussions.

Wednesday Oct 26 2011	Location: Campus LMU, Physik Altbau, Schellingstr. 4, #110.
10:00-11:00	Lab Tour LMU
11:00 - 11:30	Zhao Zhang - 'Investigation of the structural flexibility of a multi-state DNA actuator'
11:30 - 12:00	Daniel Schiffels - 'Stiffness and supertwist of DNA nanotubes'
12:00 - 13:00	Lunch
13:00 - 13:30	Timon Funk - 'LMU Biomod Team Presentation'
13:30 - 14:00	Hans Christian Hoiberg - 'Aarhus Biomod Team Presentation'
14:00 - 14:30	Coffee Break
14:30 - 15:00	David Smith - 'DNA origami scaffold functionalization'
15:00 - 15:30	Katerina Busuttill - 'DNA origami: addressing monolayers at the molecular level'
15:30 - 16:00	Anne Kodal - 'To be announced'
16:00 - 16:30	Closing remarks

Chairman rules: Preceding speaker acts as chairman for the next presentation.